

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Canceled).

2. (Currently Amended) A demodulation apparatus for mobile communication ~~according to claim 1,~~ having capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

threshold setting means; and

signal selecting means for comparing each of said incoming signals with a threshold set by said threshold setting means and for selecting said incoming signals according to the result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said threshold setting means sets the threshold based on a correlation value information for said incoming signals selected in a previous cycle.

3. (Canceled).

4. (Currently Amended) A demodulation apparatus for mobile communication ~~according to claim 1,~~ having capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

threshold setting means; and

signal selecting means for comparing each of said incoming signals with a threshold set by said threshold setting means and for selecting said incoming signals according to the result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said signal selecting means selects signals that are signals of path locations different from path locations of said incoming signals selected in a previous cycle and that are equal to or above the threshold.

5. (Currently Amended) A demodulation apparatus for mobile communication ~~according to claim 1,~~ having capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

threshold setting means; and

signal selecting means for comparing each of said incoming signals with a threshold set by said threshold setting means and for selecting said incoming signals according to the result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said threshold setting means sets the threshold based on the maximum peak value of said incoming signals selected in a previous cycle.

6. (Currently Amended) A demodulation apparatus for mobile communication according to claim [[1]] 2, wherein said threshold setting means sets the threshold as a fixed value.

7. (Currently Amended) A demodulation apparatus ~~according to claim 1,~~ having capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

threshold setting means; and

signal selecting means for comparing each of said incoming signals with a threshold set by said threshold setting means and for selecting said incoming signals according to the result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said threshold setting means sets the threshold based on either:
a) the maximum peak value obtained by calculation of a delay profile, or b) an average of values other than a detected peak value by calculation of a delay profile.

8. (Canceled).

9. (Canceled).

10. (Currently Amended) A demodulation method for mobile communication ~~according to claim 9,~~ providing capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

a first step of setting a threshold; and

a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparing even if said incoming signals do not meet said predetermined condition,

wherein said first step comprises setting the threshold based on a correlation value information for said incoming signals selected in a previous cycle.

11. (Canceled).

12. (Currently Amended) A demodulation method for mobile communication ~~according to claim 9,~~ providing capability of cyclically selecting

signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

a first step of setting a threshold; and

a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparing even if said incoming signals do not meet said predetermined condition,

wherein said second step comprises selecting signals that are signals of path locations different from path locations of said incoming signals selected in the previous cycle and that are equal to or above the threshold.

13. (Currently Amended) A demodulation method for mobile communication ~~according to claim 9,~~ providing capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

a first step of setting a threshold; and

a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparing even if said incoming signals do not meet said predetermined condition,

wherein said first step comprises setting the threshold based on the maximum peak value of the signals selected in the previous cycle.

14. (Currently Amended) A demodulation method for mobile communication according to claim [[9]] 10, wherein said first step comprises setting the threshold as a fixed value.

15. (Currently Amended) A demodulation method for mobile communication ~~according to claim 9,~~ providing capability of cyclically selecting

signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

a first step of setting a threshold; and

a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparing even if said incoming signals do not meet said predetermined condition,

wherein said first step comprises setting the threshold based on either: a) the maximum peak value obtained by calculation of a delay profile, or b) an average of values other than a detected peak value by calculation of a delay profile.

16. (Canceled).

17. (Canceled).

18. (Currently Amended) ~~A recording medium according to claim 17,~~ on which a control program for a demodulation method for mobile communication is recorded, the demodulation method providing capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, wherein

the control program is recorded on the recording medium and comprises a first step of setting a threshold, and a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said first step comprises setting the threshold based on a correlation value information for said incoming signals selected in a previous cycle.

19. (Canceled).

20. (Currently Amended) ~~A recording medium according to claim 47, on which a control program for a demodulation method for mobile communication is recorded, the demodulation method providing capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, wherein~~

the control program is recorded on the recording medium and comprises a first step of setting a threshold, and a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said second step comprises selecting signals that are signals of path locations different from path locations of said incoming signals selected in the previous cycle and that are equal to or above the threshold.

21. (Currently Amended) ~~A recording medium according to claim 47, on which a control program for a demodulation method for mobile communication is recorded, the demodulation method providing capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, wherein~~

the control program is recorded on the recording medium and comprises a first step of setting a threshold, and a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said first step comprises setting the threshold based on the maximum peak value of said incoming signals selected in ~~the~~ a previous cycle.

22. (Currently Amended) A recording medium according to claim ~~[[17]]~~ 20, wherein said first step comprises setting the threshold as a fixed value.

23. (Currently Amended) A recording medium ~~according to claim 17,~~ on which a control program for a demodulation method for mobile communication is recorded, the demodulation method providing capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, wherein

the control program is recorded on the recording medium and comprises a first step of setting a threshold, and a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said first step comprises either: a) setting the threshold based on the maximum peak value obtained by calculation of a delay profile, or b) setting the threshold based on an average of values other than a detected peak value by calculation of a delay profile.

24. (Canceled).

25. (Currently Amended) A demodulation apparatus for mobile communication ~~according to claim 1,~~ having capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

threshold setting means; and

signal selecting means for comparing each of said incoming signals with a threshold set by said threshold setting means and for selecting said incoming signals according to the result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said predetermined condition is to detect the peak of said incoming signals at a certain path location for more than once.

26. (Currently Amended) A demodulation apparatus for mobile communication ~~according to claim 1,~~ having capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

threshold setting means; and

signal selecting means for comparing each of said incoming signals with a threshold set by said threshold setting means and for selecting said incoming signals according to the result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said signal selecting means selects said incoming signals if the respective levels of said incoming signals is equal to or above said threshold.

27. (Currently Amended) A demodulation method for mobile communication ~~according to claim 9,~~ providing capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

a first step of setting a threshold; and

a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparing even if said incoming signals do not meet said predetermined condition,

wherein said predetermined condition is to detect the peak of said incoming signals at a certain path location for more than once.

28. (Currently Amended) A demodulation method for mobile communication ~~according to claim 9,~~ providing capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, comprising:

a first step of setting a threshold; and

a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparing even if said incoming signals do not meet said predetermined condition,

wherein said second step selects said incoming signals if the respective levels of said incoming signals is equal to or above said threshold.

29. (Currently Amended) A recording medium ~~according to claim 17,~~ on which a control program for a demodulation method for mobile communication is recorded, the demodulation method providing capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, wherein

the control program is recorded on the recording medium and comprises a first step of setting a threshold, and a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said predetermined condition is to detect the peak of said incoming signals at a certain path location for more than once.

30. (Currently Amended) A recording medium ~~according to claim 17,~~ on which a control program for a demodulation method for mobile communication is recorded, the demodulation method providing capability of cyclically selecting signals that meet a predetermined condition out of a plurality of incoming signals that travel via different paths, combining the incoming signals to obtain combined signals, and outputting the combined signals, wherein

the control program is recorded on the recording medium and comprises a first step of setting a threshold, and a second step of comparing each of said incoming signals with a threshold set by said first step and selecting said incoming signals according to a result of said comparison even if said incoming signals do not meet said predetermined condition,

wherein said second step selects said incoming signals if the respective levels of said incoming signals is equal to or above said threshold.